Wind power generation on the east coast

1406. SHRI S.M. LALJAN BASHA: Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether it is a fact that Government has not adequately exploited the potential of wind power on the East Coast;

(b) whether it is also a fact that the potential wind power generating areas in Andhra Pradesh have not been mapped properly;

(c) in what ways Government is active in promoting entrepreneurship in the field of wind-energy;

(d) the steps proposed to set up exhibitions and demonstration plants in every State; and

(e) the reasons for lack of initiative in this regard?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI VILAS MUTTEMWAR): (a) No, Sir. Wind surveys have been conducted in coastal areas including East Coast under the Wind Resource Assessment programme of the Ministry. 39 sites which could be considered suitable for wind power development have been identified in East Coast.

(b) No, Sir. 216 potential sites in 13 States/Union Territories have been identified as potential sites for setting up of wind power projects including 32 sites in the State of Andhra Pradesh. A wind power potential of about 8200 MW has been estimated in the State of Andhra Pradesh.

(c) The Government promotes setting up of commercial wind power projects in the country, by providing fiscal incentives such as concessional import duty on certain components of wind electricity generator, excise duty exemption, ten years tax holiday on income generated from wind power projects, benefit of accelerated depreciation and loan from Indian Renewable Energy Development Agency (IREDA). Technical support including detailed wind resource assessment to identify further potential sites is provided by the Centre for Wind Energy Technology (C-WET). This apart, preferential tariff is being provided for wind power in most of the potential States.

Bio-mass projects

1407. SHRI B.J. PANDA:
MS. PRAMILA BOHIDAR:

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether Government is proposing to go in for biomass projects in various parts of the country, to light up rural India;

(b) if so, the details thereof, *inter-alia,* indicating such projects that are proposed to be set up in Orissa;

(c) the status of generation of hydro-power in the country; and

(d) the action plan to further develop this sector?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI VILAS MUTTEMWAR): (a) The Government is encouraging promotion of biomass based off-grid small power projects for meeting unmet demand of electricity in electrified/ un-electrified villages in the country under various programmes *viz.* Village Energy Security Programme (VESP), Remote Village Electrification Programme (RVEP) and Biomass Gasifier programme.

(b) Biomass based systems/devices are encouraged for meeting *inter-alia* electricity needs under VESP. The RVEP aims to provide basic facilities of lighting/electricity in those remote, un-electrified census villages and remote un-electrified hamlets of electrified census villages, where grid connectivity is either not feasible or not cost effective, through various renewable energy sources, including biomass. Under RVEP, support has been provided for electrification of 47 villages/hamlets; using biomass gasifier systems in the country including
10 villages/hamlets in Orissa. A total of 78 test projects have been taken up under VESP for implementation in 11 states including 12 test projects in Orissa.

(c) So far, 608 small hydro power projects (upto 25 MW station capacity) with an aggregate capacity of 2015 MW have been set up in the country. The annual estimated generation from these projects is 4028 million units per year.

(d) A target of adding 1400 MW from small hydro power has been planned during the 11th Five Year Plan.

Assessment of power generation capacity in bio-mass sector

† 1408. DR. MURLI MANOHAR JOSHI:
SHRI RAJ MOHINDER SINGH MAJITHA:

Will the Minister of NEW AND RENEWABLE ENERGY be pleased to state:

(a) whether it is a fact that Government has made an assessment of the power generation capacity in bio-mass sector in the country;

(b) if so, the details thereof;

(c) the total quantum of power that was being generated in this sector till March, 2007; and

(d) the target fixed by Government for installing the power generation capacity in this sector in the country by 2012?

THE MINISTER OF STATE OF THE MINISTRY OF NEW AND RENEWABLE ENERGY (SHRI VILAS MUTTEMWAR): (a) and (b) Yes, Sir. The Government has sponsored a project on "National Biomass Resource Atlas" to the Indian Institute of Science, Bangalore. The study has indicated a biomass power potential of about 18,000 MWE from the surplus agro residues available in the country, excluding biomass plantation. Further, a potential of 5,000 MW of surplus power generation through optimum bagasse based congeneration has been estimated in the existing sugar mills of the country, with a crushing capacity of 2,500 Tonnes Cane Crushed per Day (TCD).

† Original notice of the question was received in Hindi